



453840



**POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 1 - SITE INFORMATION AND ASSESSMENT**

**I. IDENTIFICATION**

01 STATE 02 SITE NUMBER

OH D00425325

**II. SITE NAME AND LOCATION**

01 SITE NAME (Legal, common, or descriptive name of site)

HEEKIN CAN DIVISION

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER

8200 BROADWELL ROAD

03 CITY

CINCINNATI

04 STATE

05 ZIP CODE

06 COUNTY

OH

45244

HAMILTON

07 COUNTY CODE

061

08 CONG DIST

01

09 COORDINATES LATITUDE

39°08'27.0"

LONGITUDE

084°18'59.0"

179, NE, MADEIRA, ANDERSON TOWNSHIP

10 DIRECTIONS TO SITE (Starting from nearest public road)

FROM DEPA/SWDC IN DAYTON, TAKE I-75 SOUTH. EXIT I-275 EAST. FOLLOW I-275 TO ROUTE 32 WEST. FOLLOW 32 WEST FOR APPROXIMATELY 1.25 MILES AND TURN RIGHT ONTO MT. CARMEL ROAD. FOLLOW MT. CARMEL FOR ABOUT 1.3 MILES AND TURN LEFT ON BROADWELL. SITE IS ON RIGHT ABOUT 1/2 MILE.

**III. RESPONSIBLE PARTIES**

01 OWNER (If known) HEekin Can Company

(A DIVISION OF DIAMOND INTERNATIONAL CORP.)

02 STREET (Business, mailing, residential)

8200 BROADWELL ROAD

03 CITY

CINCINNATI

04 STATE

05 ZIP CODE

06 TELEPHONE NUMBER

OH

45244

513-388-2203

07 OPERATOR (If known and different from owner)

(A DIVISION OF DIAMOND INTERNATIONAL CORP.)

08 STREET (Business, mailing, residential)

8200 BROADWELL ROAD

09 CITY

CINCINNATI

10 STATE

11 ZIP CODE

12 TELEPHONE NUMBER

OH

45244

513-388-2203

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL☐ C. STATE☐ D. COUNTY☐ E. MUNICIPAL☐ F. OTHER: \_\_\_\_\_ (Specify)☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: \_\_\_\_\_ MONTH DAY YEAR☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: \_\_\_\_\_ MONTH DAY YEAR☒ C. NONE**IV. CHARACTERIZATION OF POTENTIAL HAZARD**

01 ON SITE INSPECTION

☒ YES

DATE 02.20.87

☐ NO

BY (Check all that apply)

☐ A. EPA☐ B. EPA CONTRACTOR☒ C. STATE☐ D. OTHER CONTRACTOR☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: \_\_\_\_\_ (Specify)

PAUL PARDI (SWDC)

CONTRACTOR NAME(S): \_\_\_\_\_

02 SITE STATUS (Check one)

☒ A. ACTIVE☐ B. INACTIVE☐ C. UNKNOWN

03 YEARS OF OPERATION

1974

PRESENT

☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

HEAVY METALS (TOXIC/PERSISTENT)  
SOLVENT (TOXIC/CORROSIVE/INCOMPATIBLE)  
SLUDGE (TOXIC/PERSISTENT)  
OILY WASTE (TOXIC/FLAMMABLE)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

GROUNDWATER (POPULATION/ENVIRONMENT)  
FIRE/EXPLOSION (POPULATION/ENVIRONMENT)  
SURFACE WATER (POPULATION/ENVIRONMENT)  
VAPOR RELEASE (POPULATION/ENVIRONMENT)

**V. PRIORITY ASSESSMENT**

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH

(Inspection required promptly)

☐ B. MEDIUM

(Inspection required)

☐ C. LOW

(Inspect on time available basis)

☐ D. NONE

(No further action needed, complete current disposition form)

**VI. INFORMATION AVAILABLE FROM**

01 CONTACT

MARC HILL

02 OF (Agency/ Organization)

OHIO ENVIRONMENTAL PROTECTION AGENCY

03 TELEPHONE NUMBER

(513) 449-6357

04 PERSON RESPONSIBLE FOR ASSESSMENT

CLAUDINE F. JONES

05 AGENCY

OHIO EPA

06 ORGANIZATION

SWDC/DSTHM

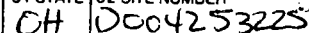
07 TELEPHONE NUMBER

(513) 449-6357

08 DATE

09.24.87

MONTH DAY YEAR



☐ J. HIGHLY VOLATILE  
☒ K. EXPLOSIVE  
☐ L. REACTIVE  
☒ M. INCOMPATIBLE  
☐ N. NOT APPLICABLE



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

04 D004253225

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 <input checked="" type="checkbox"/> A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: <u>5,300</u>	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
THERE IS POTENTIAL FOR GROUNDWATER CONTAMINATION RESULTING FROM A SPILL DURING THE LOADING/UNLOADING OF DRUMS FOR TRANSPORT TO A PERMANENT STORAGE SITE. ALSO, WASTE WATER EFFLUENT USED IN AN ALUMINUM CAN CLEANING PROCESS IS DISCHARGED INTO A GRAVEL PIT ON-SITE WHICH PROVIDES A DIRECT PATHWAY OF MIGRATION TO THE WATER TABLE, AS THE PIT IS CENTRALLY LOCATED OVER TWO MAJOR AQUIFERS, THE LOWER OF WHICH IS EXTENSIVELY DEVELOPED.		
01 <input checked="" type="checkbox"/> B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: <u>UNKNOWN</u>	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
THE GRAVEL PIT RECEIVING THE WASTEWATER EFFLUENT LIES WITHIN THE FLOOD PLAIN OF THE LITTLE MIAMI RIVER. DURING HIGH RAINS, THE WASTEWATER LEVEL IN THE PIT HAS BEEN OBSERVED (12/30/82) TO OVERFLOW INTO A SMALL WATERCOURSE WHICH LEADS TO THE LITTLE MIAMI RIVER. IN THE EVENT OF A FIRE, USE OF WATER AND/OR CHEMICAL SUPPRESSANT COULD RESULT IN CONTAMINATED RUNOFF.		
01 <input checked="" type="checkbox"/> C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: <u>~ 44,414</u>	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
THERE IS A POTENTIAL FOR A TOXIC VAPOR RELEASE RESULTING FROM FIRE OR EXPLOSION OF STORED, DUMPMED WASTES. 44,414 population is based on house count of 5561 within 4 mile radius (multiplied by 3.8) and 600 workers at Heekin Facility as well as 1930 population report for Terrace Park, Mariemont, Milford, Newton, Maderia (25%), Fairfax (20%) and Madisonville (60%) communities.		
01 <input checked="" type="checkbox"/> D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: <u>~ 600</u>	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
A FIRE OR EXPLOSION COULD RESULT IN THE RELEASE OF TOXIC FUMES FROM WASTES STORED ON-SITE AND COULD POSSIBLY SPREAD TO OTHER AREAS AT THE FACILITY WHERE HAZARDOUS WASTE IS STORED, RESULTING IN ADDITIONAL FIRE AND EXPLOSIONS. 6889 population based on house count of 855 within 2 mile radius (multiplied by 3.8) and population census for Terrace Park and 50% of Newton.		
01 <input checked="" type="checkbox"/> E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: <u>~ 600</u>	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
PLANT WORKERS COULD BE EXPOSED TO TOXIC VAPORS FROM WASTES STORED ON-SITE. IN THE EVENT OF A FIRE OR EXPLOSION (600 population based on 1 mile radius).		
01 <input checked="" type="checkbox"/> F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: <u>UNKNOWN</u>	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
OVERFLOW OF WASTEWATER EFFLUENT FROM GRAVEL PIT DURING HEAVY RAINS, FLOW OVER LAND SURFACE BY MEANS OF A SMALL WATERWAY TO THE LITTLE MIAMI RIVER. THEREBY THE POTENTIAL FOR SOIL CONTAMINATION EXISTS.		
01 <input checked="" type="checkbox"/> G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: <u>5,300</u>	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
10/24/80 - CITIZEN COMPLAINT CONCERNED WITH GROUNDWATER QUALITY 1/2 MILE SOUTH OF SITE. IN ADDITION, THE GRAVEL PITS ARE CENTRALLY LOCATED OVER TWO MAJOR AQUIFERS, THE LOWER OF WHICH IS EXTENSIVELY DEVELOPED, AND CONSIDERED AS A VALUABLE GROUND-WATER SOURCE. (5300 population based on 3 mile radius)		
01 <input checked="" type="checkbox"/> H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: <u>~ 600</u>	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
INJURY RESULTING FROM FLYING FRAGMENTS OR INHALATION OF TOXIC VAPORS COULD OCCUR IF THERE IS AN EXPLOSION OR FIRE ON-SITE.		
01 <input type="checkbox"/> I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
OH Doc# 253225

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION

☒ OBSERVED (DATE: 12/30/82)

☐ POTENTIAL

☒ ALLEGED

TREES HAVE DIED ALONG THE AREA OF DISCHARGE OF THE WASTEWATER EFFLUENT AND OVERFLOW WATERWAY WHICH LEADS TO THE LITTLE MIAMI RIVER

01 ☐ K. DAMAGE TO FAUNA

04 NARRATIVE DESCRIPTION (Include name(s) of species)

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

(Spills/runoff/standing liquids/leaking drums)

03 POPULATION POTENTIALLY AFFECTED: UNKNOWN

02 ☒ OBSERVED (DATE: 12/30/82)

☐ POTENTIAL

☒ ALLEGED

04 NARRATIVE DESCRIPTION

GRAVEL PIT INTO WHICH PLANT WASTEWATER IS DISCHARGED; OVERFLOWS DURING HEAVY RAINFALL.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

8/10/81 - OEPA PERSONNEL OBSERVED A BLUE-GREEN SOLID MATERIAL IN GRAVEL PIT AREA BY OUTFALL FROM WASTEWATER EFFLUENT. THIS IS IN ACCORDANCE WITH AN ANONYMOUS REPORT TO OEPA ON 12/30/82 BY A CITIZEN WHO OBSERVED A GREENISH-WHITE SUBSTANCE IN PIT, WHICH OVERFLOWS DURING HEAVY RAINSTORMS INTO A SMALL WATERWAY WHICH LEADS TO THE LITTLE MIAMI RIVER.

III. TOTAL POPULATION POTENTIALLY AFFECTED: ~ 44, 914

IV. COMMENTS

8/26/82 - OEPA PERSONNEL (BRUCE MIDILDO) OBSERVED NON-COMPLIANCE WITH DRUM STORAGE DURING AN ON-SITE INSPECTION. THE FOLLOWING WAS OBSERVED: DRUMS WITHOUT LIDS, REUSED DRUMS WITH OLD LABELS, AND DRUMS WITH DATES THAT EXCEEDED THE 90-DAY STORAGE LIMITS.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

RERA (TSDF) FILES - CONTINGENCY PLAN AND GENERAL CORRESPONDANCE  
INDUSTRIAL WASTEWATER FILES 5756 - 8/83  
GROUNDWATER FILES - BULLESS & NIPLE, LTD. 1983 HYDROLOGIC INVESTIGATION  
- CITIZEN COMPLAINT  
- ERM PROTECT REPORT FOR LAND TREATMENT DISPOSAL FACILITY (7/13/84)

SITE NAME:  
 SITE ID. #:

 HEEKIN CAN DIVISION  
 D004253225

 Information  
 Available

Major Data Elements

Yes : No

Major Source (Ohio EPA Divisions, other agencies, reports/documents)

Owner/Operator Information

Owner : ☒ : OLD P.A. FILE / INDUSTRIAL WASTEWATER FILES / RCRA (TSDF) FILES

Operator : ☒ : OLD P.A. FILE / INDUSTRIAL WASTEWATER FILES / RCRA (TSDF) FILES

Other Responsible or Affected Parties : ☒ : NOT APPLICABLE - ON SITE GENERATION, TREATMENT, DISCHARGE / STORAGE

Waste Information

Waste States : ☒ : RCRA (TSDF) FILES / INDUSTRIAL WASTEWATER FILES

Waste Quantity at Site : ☒ : RCRA (TSDF) FILES

Waste Characterization : ☒ : RCRA (TSDF) FILES / INDUSTRIAL WASTEWATER FILES

Waste Type : ☒ : RCRA (TSDF) FILES

Hazardous Substances : ☒ : INDUSTRIAL WASTEWATER FILES (HAZARD DATA SHEET)

Hazardous Conditions Information

On-Site Inspection : ☒ : RCRA (TSDF) FILES

Ground Water : ☒ : GROUNDWATER FILES / ERM REPORT

Surface Water : ☒ : CITIZEN COMPLAINT

Air : ☒ :

Fire/Explosion : ☒ : CONTINGENCY PLAN BY HEEKIN CAN (SEE INDUSTRIAL WASTEWATER FILE)

Direct Contact : ☒ :

Soil : ☒ : GROUNDWATER FILES / CITIZEN COMPLAINT

Drinking Water : ☒ : GROUNDWATER FILES / PUBLIC WATER SUPPLY DOCUMENTS / TELEPHONE MEMO WITH INDIAN HILL WATER WORKS

Floral Fauna/Food Chain : ☒ : CITIZEN COMPLAINT



5E0301- further Research Required

Med - GYW  
11/1/87

Preliminary Assessment Review

RECEIVED

OCT 27 1987

Heekin Can Division  
8200 Broadwell Road  
Cincinnati, Ohio 45244

OHD004253225

PLANNING AND CONTRACTS  
MANAGEMENT UNIT

The Heekin Can Company occupies approximately 137 acres in the northeast portion of Anderson Township in Hamilton County, Ohio just due west of the Hamilton/Clermont county line and south of the Terrace Residential Community at the intersection of Roundbottom and Broadwell Roads. The Little Miami River which flows over the Little Miami River Buried Valley Aquifer, borders the northern portion of the site.

Heekin Can has been manufacturing aluminum cans for the food and beverage industry since 1974. The use of chemical solvents during the manufacturing process generated two types of waste: (1) a sludge mixture comprised of spent solvent, classified as hazardous waste F019, which is temporarily stored on site and (2) a wastewater effluent formerly comprised of oily wastes, Chromium, Fluoride, Sulfate, and high Total Dissolved Solids (TDS), which was treated on-site before being discharged into a large gravel pit just north of the plant, also located on-site. Treated wastewater containing Chromium concentrations of .17 mg/l exceeded the Primary Drinking Water Standard Maximum Contaminant Level of 0.5 mg/l and was discharged into the gravel pit from 1974 to 1986. Analytical results of a sample of the wastewater effluent discharged into the pit, taken in July of 1980, indicates that in addition to Chromium, concentrations exceeded the Secondary Maximum Contaminant Levels for Sulfate (1480 mg/l), Copper (50 mg/l), Fluoride (26.0 mg/l) and TDS (3176 mg/l). The daily discharge of approximately 67,000 gallons of wastewater effluent into the gravel pit generates concern as it is located within the flood plain of the Little Miami River and above two productive aquifers, the lower of which provides water to approximately 5,300 people in Milford, Clermont County, Ohio. The Milford community well field consists of three wells located approximately 2.7 miles northeast of the site near Water Street in Milford.

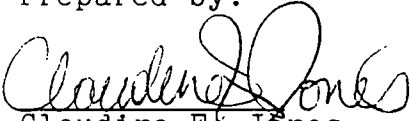
In addition, it has been observed that during heavy rains the water level in the gravel pit rises to the point of overflow into a small water course which leads to the Little Miami River; trees have died along the area of discharge of the wastewater effluent and along this water course.

At present, Heekin Can no longer utilizes the same chemical products in the manufacturing process of aluminum cans, and all generated wastewater is neutralized before being discharged to a land treatment disposal system on-site. However, due to the chemical nature of the treated

Heekin Can Division  
OHD004253225  
Page 2

wastewater effluent generated between 1974 and 1986, as well as the disposal method of discharge into a gravel pit which is centrally located over productive aquifers, a medium priority for State and FIT activity is recommended.

Prepared by:

  
Claudine F. Jones  
OEPA Contractor/SWDO  
September 11, 1987

Reviewed by:

  
Michael J. Starkey  
Unregulated Sites Group Leader  
DSHWM

#00529 TW



July 1, 1987

ckm. Notes

### SUMMARY OF HEEKIN CAN'S OPERATION

HEEKIN CAN HAS BEEN DISCHARGING INDUSTRIAL WASTEWATER AND SANITARY WASTEWATER TO TWO GRAVEL PITS THAT ARE JUST NORTH AND NORTHWEST OF THE COMPANY'S PLANT.

THE INDUSTRIAL WASTEWATER WAS THE RESULT OF AN EFFLUENT AFTER HEXAVALENT CHROMIUM WAS REDUCED TO TRIVALENT CHROMIUM, pH ADJUSTED, FLOCCULATED, AND SETTLED. THIS WASTEWATER WAS DETERMINED BY OHIO EPA'S LEGAL STAFF AS BEING NON-HAZARDOUS. HOWEVER, THE DISCHARGE OF THE WASTEWATER IN THE GRAVEL PITS WAS DETERMINED TO BE A POINT SOURCE OF POTENTIAL CONTAMINATION TO THE WATER'S OF THE STATE. THE COMPANY WAS REQUIRED TO OBTAIN AN NPDES PERMIT AS A RESULT OF THIS.

THE SOLID PORTION OF THE PRETREATED INDUSTRIAL WASTEWATER WAS STILL DETERMINED TO BE A LISTED HAZARDOUS WASTE (F019). THIS WASTE WAS SUPPOSEDLY DISPOSED OF IN A RCRA "MANNER" ACCORDING TO A SOURCE DOCUMENT WITHIN THE INDUSTRIAL WASTEWATER FILES. THE COMPANY HAD ATTEMPTED IN THE PAST TO GET A DELISTING OF THIS WASTE STREAM FROM USEPA. (THERE IS NO MENTION WITHIN THE INDUSTRIAL WASTEWATER FILES AS TO THE COMPANY'S ATTAINMENT OF THE DELISTING.)

IN A LETTER DATED 5/19/86, HEEKIN CAN NO LONGER USES CHROMIUM COATING IN TWO PIECE CAN MAKING. THEY HAVE GONE TO A NON-CHROMIUM COATING PROCESS. THE COMPANY HAS OBTAINED AN PTI FOR A LAND TREATMENT PROCESS FOR THE WASTEWATER STREAMS. THE AREA FOR THE TREATMENT PROCESS IS TO COVER 4.5 ACRES.

on-site or?  
OH-site

Permit To Install

THE DISPOSING OF THE WASTEWATERS WAS DETERMINED TO HAVE POTENTIAL EFFECTS ON THE AQUIFER BENEATH THE GRAVEL PITS.

↓  
+ waters?

✓ Contact: Brad Gamble in-house



Hickory Lagoon

HAMILTON County  
MADEIRA QUAS  
#179 NE

1470 000 FEET 0.1 MI. TO OH/O 32

729

730

20'

731

732' (WITH 410